



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Adopt resolution authorizing the City Manager to execute a professional services agreement with Power Engineers, Inc. for engineering services for the Killelea Substation reconstruction project and appropriate funds (\$295,000.00) (EUD)

MEETING DATE: August 6, 2003

SUBMITTED BY: Electric Utility Director

RECOMMENDED ACTION: That the City Council authorize the City Manager to enter into a professional services agreement with Power Engineer's Inc. for engineering services for the Killelea Substation reconstruction project and appropriate funds in the amount of \$295,000.00.

BACKGROUND INFORMATION: The Killelea Substation was constructed in 1965. The 12 kV section is a metal clad type enclosed switchgear. The manufacturer of this equipment is no longer in business making parts extremely difficult to locate. The design of this switchgear is such that a failure of one portion of the insulated bus likely would escalate throughout the entire switchgear making a failure catastrophic resulting in a total loss of the station. The age and condition of the insulating material makes the likelihood of a failure greater with each passing year. The 60 kV bus structure was the interconnection facility as well as the main 60 kV distribution structure prior to the construction of Industrial Substation. A large portion of this structure is no longer needed and adds unnecessary exposure to the City's electric system. This substation was expected to be phased out of service with the construction of Industrial Substation. However, with the significant industrial growth on the east side of the City this station will remain a necessary and vital part of the City's electric system and will require reconstruction to remain a reliable and dependable substation.

The existing 38 ft. tall lattice steel 60 kV structure, originally constructed to serve as the City's main 60 kV distribution facility, will be removed and replaced with three individual 27 ft. tall tubular steel support structures, appearing much like an inverted "U". The new 60 kV bus will also be located farther away from the perimeter of the station to increase operating flexibility, improve safety and minimize the visual impact. The 12 kV bus will be low profile open bus similar to the busses in the other substations. A recent evaluation of the two power transformers, originally thought to be suitable for reuse, has shown replacement to be the most economical option. Funding for the replacement was included in the 2003-05 Financial Plan and Budget.

This project also includes the addition of two 60 kV power circuit breakers and associated equipment at Industrial Substation. These circuit breakers will increase the switching capability and in turn improve service reliability. One of the circuit breakers will connect Killelea Substation to the City's transmission system like Henning and McLane Substations. The other circuit breaker will connect the third and recently upgraded supply line from the PG&E system identically to the two other supply lines. These circuit breakers were not installed when Industrial Substation was originally constructed, because it appeared at the time that Killelea Substation would be phased out and that the third line would not be upgraded.

APPROVED: _____


H. Dixon Flynn - City Manager



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Killelea Substation, professional services agreement (continued)

Project Costs:

Study and evaluation (prior item):	\$32,000
Engineering design (this item):	295,000
Land acquisition and demolition (estimated):	185,000
Construction and construction management (future, estimate):	<u>4,300,000</u>
Total estimated project cost:	<u>\$4,812,000</u>

FUNDING:

Included in the Financial Plan and Budgets as follows:


1999-2001: \$1,685,000 (Page E28 and E29)

2001-2003: \$1,750,000 (Page E33)

2003-2005: \$1,542,000 (Page number not known at this time)

Funding Approval:


Vicky McAthie, Finance Director


Alan N. Vallow
Electric Utility Director

Prepared by: Hans Hansen, Manager, Engineering and Operations

ANV/HH/lt

c: City Attorney
Community Development Director
Finance Director
Purchasing Officer

APPROVED: _____

H. Dixon Flynn - City Manager

RESOLUTION NO. 2003-142

A RESOLUTION OF THE LODI CITY COUNCIL AUTHORIZING
THE CITY MANAGER TO EXECUTE A PROFESSIONAL
SERVICES AGREEMENT WITH POWER ENGINEERS, INC.,
FOR ENGINEERING SERVICES FOR THE KILLELEA
SUBSTATION RECONSTRUCTION PROJECT, AND FURTHER
APPROPRIATE FUNDS FOR THIS PROJECT

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BE IT RESOLVED that the Lodi City Council hereby authorizes the City Manager to enter into a professional service agreement with Power Engineers, Inc., for engineering services for the Killelea Substation reconstruction project in the amount of \$295,000.00; and

BE IT FURTHER RESOLVED that funds in the amount of \$295,000.00 be appropriated as follows for this project:

Included in the Financial Plan and Budgets as follows:

1999-2001: \$1,685,000 (Page E28 and E29)

2001-2003: \$1,750,000 (Page E33)

2003-2005: \$1,542,000

Dated: August 6, 2003

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I hereby certify that Resolution No. 2003-142 was passed and adopted by the Lodi City Council in a regular meeting held August 6, 2003, by the following vote:

AYES: COUNCIL MEMBERS – Beckman, Hansen, Howard, Land, and
Mayor Hitchcock

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

ABSTAIN: COUNCIL MEMBERS – None



SUSAN J. BLACKSTON
City Clerk